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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,738	05/08/2006	Steven W. Webb	128346.20101	5551
21269 7590 11/23/2007 PEPPER HAMILTON LLP ONE MELLON CENTER, 50TH FLOOR 500 GRANT STREET			EXAMINER	
			CRANE, DANIEL C	
PITTSBURGH			ART UNIT	PAPER NUMBER
			3725	
			MAIL DATE	DELIVERY MODE
			11/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/595,738	WEBB, STEVEN W.		
Office Action Summary	Examiner	Art Unit		
	Daniel C. Crane	3725		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. nely filed the mailing date of this communication. TO (35 U.S.C. § 133)		
Status				
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. nce except for formal matters, pre			
Disposition of Claims				
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.	· .		
Application Papers				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer are considered to by the Examiner than the specific acceptance of the specific and the specific acceptance of the specific acceptance	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s)		•		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/28/2006.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

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BASIS FOR REJECTIONS

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention

thereof by the applicant for patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

REJECTION OF CLAIMS OVER PRIOR ART

Claims 1-5 and 10-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Engelfriet (4,392,397). See all the Figures where a diamond die 5 or 42 or 81 are positioned within rings 4, 6 or 43, 45 or 82, 80, respectively, in such a manner that a pre-stress is imparted to the diamond die. Since ring is deformed and pressed into place against the diamond die and against the outer ring (housing), a "pre-stress" is set up in the assembly.

Claims 9 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Engelfriet (4,392,397). The size of the die is dependent upon its intended use. Clearly, it would have been within the purview of the skilled artisan to have sized the die accordingly. Similarly,

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as to the heat treatment, the temperature used would have been dependent upon the materials used. Furthermore, the skilled artisan would have determined optimum heat treating temperatures that would optimize die results.

Claims 6-8, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Engelfriet (4,392,397) in view of Ridgeway (2,027,787). Engelfriet does not the use of a retaining material between the rings. However, Ridgeway shows that such features are well-known in the art as evidenced by Ridgeway at 15 where a retaining material can be used to increase the bonding effect between the ring and die (see page 4, column 2, lines 35-70). Accordingly, to would have been obvious to the skilled artisan to have modified Engelfriet's die by further providing a coating between the rings and die using the concepts taught by Ridgeway for the above noted motivation.

PRIOR ART CITED BY EXAMINER

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

RESPONSE BY APPLICANT(S)

Applicant(s) response to be fully responsive and to provide for a clear record must specifically point out how the language of the claims patentably distinguishes them from the references, both those references applied in the objections and rejections and those references cited in view of the state of the art in accordance with 37 CFR 1.111 (a), (b) and (c).

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INQUIRIES

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Examiner D. Crane whose telephone number is (571) 272-4516.

The examiner's office hours are 7:00AM-3:30PM, Monday through Friday.

Documents related to the instant application may be submitted by facsimile transmission

at all times to Fax number (571) 273-8300. Applicant(s) is(are) reminded to clearly mark any

transmission as "DRAFT" if it is not to be considered as an official response. The Examiner's

Fax number is (571) 273-4516.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DCCrane

November 19, 2007

Daniel C. Crane

Primary Patent Examiner

Group Art Unit 3725